QC ABSTRACT

NAME OF WORK: Improvements and Maintenance of Culvert at Prashanthnagar in Ward no 13 Mallasandra Shettyhalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	55.14	10	10

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-02-14-46**

Date: 17-12-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-12-19

Lab ID	:	CP-2020-02-14-46
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Prashanthnagar in Ward no 13 Mallasandra Shettyhalli Sub Division
Agency	:	Sri. S.N Shankrappa Somenahalli, Turuvekere, Tumkur.
Customer's Reference	:	EE/DD/WO/404/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-12-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-12-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.3	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.2	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2020

Lab ID	:	**CP-2020-02-14-46**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Prashanthnagar in Ward no 13 Mallasandra Shettyhalli Sub Division
Agency	:	Sri. S.N Shankrappa Somenahalli, Turuvekere, Tumkur.
Customer's Reference	:	EE/DD/WO/404/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	21/12/2019	18/01/2020	150.24 X 150.42 X 150.95	22598	**8.208**	534.7	23.7	23.3
2	Culvert Concrete	M20	21/12/2019	18/01/2020	149.27 X 151.14 X 150.86	22560	**8.353**	516.9	22.9	
3	Culvert Concrete	M20	21/12/2019	18/01/2020	150.50 X 149.85 X 150.36	22553	**8.229**	528.1	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/12/2019

Lab ID	:	**CP-2020-02-14-46**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Prashanthnagar in Ward no 13 Mallasandra Shettyhalli Sub Division
Agency	:	Sri. S.N Shankrappa Somenahalli, Turuvekere, Tumkur.
Customer's Reference	:	EE/DD/WO/404/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	21/12/2019	28/12/2019	150.23 X 151.57 X 151.68	22770	**8.233**	410.8	18.0	18.4
2	Culvert Concrete	M20	21/12/2019	28/12/2019	151.01 X 150.74 X 149.05	22764	**8.632**	427.2	18.8	
3	Culvert Concrete	M20	21/12/2019	28/12/2019	150.17 X 149.98 X 150.25	22522	**8.732**	413.4	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-02-14-46** **Date: 18/01/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Culvert at Prashanthnagar in Ward no 13 Mallasandra Shettyhalli Sub Division

Agency : Sri. S.N Shankrappa Somenahalli, Turuvekere, Tumkur.

Customer's Reference : EE/DD/WO/404/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-12-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	21/12/2019	18/01/2020	150.72 X 151.42 X 149.02	22822	**8.208**	537.0	23.5	23.2
2	Culvert Concrete	M20	21/12/2019	18/01/2020	151.82 X 150.89 X 151.74	22908	**8.353**	517.9	22.6	
3	Culvert Concrete	M20	21/12/2019	18/01/2020	151.25 X 149.73 X 150.54	22647	**8.229**	533.2	23.5	

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